

Answer Key

Lesson 7.4

Practice Level A

1. $4\sqrt{2}$ 2. $6\sqrt{2}$ 3. 3 4. $5\sqrt{2}$ 5. $\sqrt{2}$ 6. 9

7. $x = 4, y = 2\sqrt{3}$ 8. $x = 3, y = 3\sqrt{3}$

9. $x = 1, y = 2$ 10. $x = 5\sqrt{3}, y = 5$

11. $x = 14, y = 7\sqrt{3}$ 12. $x = 6, y = 12$

13.

x	2	1	4	3	7
y	$2\sqrt{2}$	$\sqrt{2}$	$4\sqrt{2}$	$3\sqrt{2}$	$7\sqrt{2}$

14.

a	5	2	4	6	11
b	$5\sqrt{3}$	$2\sqrt{3}$	$4\sqrt{3}$	$6\sqrt{3}$	$11\sqrt{3}$
c	10	4	8	12	22

15. $x = 10\sqrt{2}, y = 10$ 16. $p = 24, q = 12\sqrt{3}$

17. $m = 8, n = 8\sqrt{3}$ 18. $x = \frac{15\sqrt{2}}{2}, y = \frac{15\sqrt{2}}{2}$

19. $p = 8, q = 4$ 20. $m = \frac{5\sqrt{3}}{3}, n = \frac{10\sqrt{3}}{3}$

21. D 22. 12 ft 23. a. 127 ft 3 in.

b. 127 ft 3 in. c. No; The midpoint is at 63 ft 8 in.